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	APPLICATION NO.	1.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	09/785,577		02/16/2001	Apurva Kumar	JP920000365US1	4250
		7590	09/21/2005		EXAM	INER
	MCGINN &	MCGINN & GIBB, PLLC	CHO, HONG SOL			
	2568-A RIV				ART UNIT	PAPER NUMBER
	SUITE 304	M	D 21401		2662	

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/785,577	KUMAR ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Hong Cho	2662			
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address			
A SHO WHIC - Exter after - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DOTAINS OF THE MAILING THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on 18 A	<u>ugust 2005</u> .				
2a)⊠	This action is FINAL . 2b) This	s action is non-final.	0 0 0 0 0 0 0			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under b	Ex parte Quayle, 1935 C.D. 11, 4	53 U.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
10)	The specification is objected to by the Examinative drawing(s) filed on is/are: a) acceptable acceptable and any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Examination is objected.	cepted or b) \square objected to by the drawing(s) be held in abeyance. So ction is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
	under 35 U.S.C. § 119					
а	 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) No 3) Info Pa	ent(s) tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 per No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date Il Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

1. This office action is in response to the amendment filed on 8/18/05. Claims 1-21 are pending in the instant application.

Claim Rejections - 35 USC § 112, First paragraph

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Re claims 1, 8, and 15, it recites "..to scan at least once in a first pre-determined time period, for a second pre-determined time period, for inquiry messages from other devices". The original specification fails to describe the above claim limitation.

Claims 2-7, 9-14, and 16-21 depend on claims 1, 8, and 15 are therefore similarly rejected.

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Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-5, 8-12 and 15-19 are rejected under 35 U.S.C. 102(e) as being anticipated over Salonidis et al, hereinafter referred to as Salonidis.

Re claims 1, 3-5, 8, 10-12, 15 and 17-19, Salonidis discloses the inquired device at inquiry scan state periodically listening for inquiry message to scan from the inquiring device at inquiry state (paragraph [0019], lines 1-6) and upon reception of the inquiry message, the inquired unit goes to the standby state or sleep mode from inquiry scan state for a predetermined time (interrupting an activity being executed by a device to scan at least once in a first pre-determined time period for a second pre-determined time period for inquiry messages from other devices, paragraph [0020], lines 4-8).

Salonidis discloses controlling the period of time a unit remains in the sleep mode that will determine when the inquired device to continue its activity again or return to inquiry state to discover the neighbor devices on expiry of predetermined time period (paragraph [0045], lines 7-12) (returning to continue device discovery activity on the expiry of the

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first pre-determined time period when devices to scan are found on receipt of an inquiry message, paragraph [0046], lines 3-9). Salonidis further discloses processing inquiry message in accordance with normal procedures in frequency hopping based ad hoc networks when devices to scan are not found (paragraph [0022], lines 1-4). Salonidis discloses a connection establishment procedure between Bluetooth-enabled devices using a frequency hopping set called an inquiry hopping sequence (frequency hopping based ad-hoc network is implemented under the Bluetooth defacto standard, paragraph [0017], lines 1-5).

Re claims 2, 9 and 16, Salonidis discloses modifying predefined time period of inquiry scan for listening inquiries from other devices (second pre-determined time period appears anywhere in said first pre-determined time period with equal probability, paragraph [0045], lines 1-10).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 6, 7, 13, 14, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salonidis.

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Re claims 6, 7, 13, 14, 20 and 21, Salonidis discloses all of claim limitations of base claims, but fails to disclose periodic interruption of device discovery to occur at least once every 2.56 seconds and the first predetermined time period to continue interrupted activity again to be less than or equal to 1.28 seconds. However, those time intervals for periodic interruption of device discovery and time period to continue interrupted activity again can be easily set by modifying parameters associated with predefined probability distribution. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify parameters of predefined probability distribution of Salonidis so that periodic interruption of device discovery would occur at least once every 2.56 seconds and random time period to continue interrupted activity again would be less than or equal to 1.28 seconds. The motivation is to have compatible system with Bluetooth standard that uses 32 dedicated hopping frequencies within the Bluetooth radio band wherein the respective frequency is repeated for 2.56 seconds and the phase within the sequence of hopping frequencies changes every 1.28 seconds.

Response to Arguments

7. Applicant's arguments filed on 8/18/05 have been fully considered but they are not persuasive.

On pages 9 and 10, Applicants argue that Salonidis does not disclose reducing device discovery delays in frequency hopping based ad-hoc networks by interrupting an activity being executed by a device to scan at least once in a first pre-determined time

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period, for a second predetermined time period, for inquiry messages from other devices, returning to continue said activity on expiry of said first pre-determined time period when devices to scan are found, and processing an inquiry message in accordance with normal procedures applicable to a particular frequency hopping based ad-hoc network when said devices to scan are not found. The Examiner respectfully disagrees. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Therefore, the Examiner concludes that Salonidis still reads on the amended claims and the rejection of claims 1-21 stands.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087.
The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hong Cho Patent Examiner 9/12/2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600